

**CORN AND SOYBEANS: Production Costs and Returns,
Heartland Region, 2001-2002 1/**

Item	Corn		Soybeans	
	2001	2002	2001	2002
	<u>Dollars Per Planted Acre</u>		<u>Dollars Per Planted Acre</u>	
Gross value of production (excluding direct Government payments)				
Total gross value of production	273.17	327.93	189.78	228.34
Operating costs				
Seed	33.00	31.60	21.72	23.01
Fertilizer, lime, and gypsum	49.85	37.24	7.42	6.72
Soil conditioners	0.09	0.09	0.09	0.09
Manure	1.73	1.37	1.18	0.92
Chemicals	26.67	26.22	22.82	22.73
Custom operations 2/	9.77	9.69	6.14	6.05
Fuel, lube, and electricity	16.18	15.28	7.76	7.15
Repairs	12.21	12.35	9.84	9.95
Other variable cash expenses 3/	0.00	0.00	0.00	0.00
Interest on operating capital	2.50	1.13	1.30	0.64
Total operating costs	152.00	134.97	78.27	77.26
Allocated overhead				
Hired labor	2.10	2.19	1.42	1.49
Opportunity cost of unpaid labor	22.20	23.03	19.41	20.21
Capital recovery of machinery and equipment	51.27	51.87	52.80	53.42
Opportunity cost of land (rental rate)	96.90	98.83	92.38	93.78
Taxes and insurance	5.15	5.07	7.14	7.11
General farm overhead	10.49	10.69	15.46	15.72
Total allocated overhead	188.11	191.68	188.61	191.73
Total costs listed	340.11	326.65	266.88	268.99
Value of production less total costs listed	-66.94	1.28	-77.10	-40.65
Value of production less operating costs	121.17	192.96	111.51	151.08
Supporting information				
Yield (bu./planted acre)	151	142	46	44
Price (dollars per bushel at harvest)	1.80	2.30	4.16	5.23
Enterprise size (planted acres) 4/	270	270	225	225
Production practices 4/				
Irrigated (percent)	5	5	2	2
Dryland (percent)	95	95	98	98

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS websites listed below.

2/ Cost of custom operations, technical services, and commercial drying.

3/ Cost of purchased irrigation water.

4/ Developed from survey base year 2001, for corn. Developed from base year, 1997, for soybeans.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

WHEAT: Production Costs and Returns, Northern Plains Region, 1995-2002 1/ 2/

Item	1995	1996	1997	1998	1999	2000	2001	2002
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Wheat	120.59	143.56	93.61	100.10	85.49	83.98	77.94	80.59
Wheat straw	0.51	0.60	0.74	1.74	1.42	1.67	1.85	2.39
Total, gross value of production	121.10	144.16	94.35	101.84	86.91	85.65	79.79	82.98
Cash expenses								
Seed	7.44	8.93	7.64	7.64	6.36	6.19	6.34	6.33
Fertilizer, lime, and gypsum	15.34	15.63	14.85	14.78	13.46	13.91	19.66	14.40
Chemicals	7.98	8.27	8.33	10.61	10.28	10.15	10.14	10.09
Custom operations	2.59	2.72	2.64	4.04	3.82	4.00	3.77	3.13
Fuel, lube, and electricity	5.99	7.12	6.74	4.25	4.16	6.06	6.03	5.22
Repairs	12.51	14.09	12.77	8.10	8.85	9.85	9.66	9.57
Hired labor	2.30	2.39	2.52	1.45	1.48	1.60	1.67	1.70
Other variable cash expenses 3/	0.03	0.03	0.03	0.16	0.16	0.16	0.17	0.17
Total, variable cash expenses	54.18	59.18	55.52	51.03	48.57	51.92	57.44	50.61
General farm overhead	5.45	4.54	5.35	6.32	6.42	6.49	6.76	6.97
Taxes and insurance	8.83	8.67	9.61	3.76	3.81	3.85	3.95	3.99
Interest	10.68	9.39	9.47	1.19	1.11	1.45	0.94	0.41
Total, fixed cash expenses	24.96	22.60	24.43	11.27	11.34	11.79	11.65	11.37
Total, cash expenses	79.14	81.78	79.95	62.04	59.91	63.71	69.09	61.98
Gross value of production less cash expenses	41.96	62.38	14.40	39.80	27.00	21.94	10.70	21.00
Harvest-period price (dollars/bu.)	4.31	4.86	3.81	2.91	2.68	2.50	2.66	3.55
Yield (bu./planted acre)	27.98	29.54	24.57	34.40	31.90	33.60	29.30	22.70

1/ Data for 1995-1997 refer to the Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Data for 1998 and later refer to the Northern Great Plains Region which includes North Dakota, South Dakota, and parts of Montana, Wyoming, Nebraska and Minnesota.

3/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

BARLEY: Production Costs and Returns, Northern Plains Region, 1995-2002 1/

Item	1995	1996	1997	1998	1999	2000	2001	2002
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Barley	109.22	139.00	91.83	79.90	73.27	68.82	75.98	69.85
Barley straw	1.87	1.89	2.67	2.07	1.79	2.02	2.07	2.33
Total, gross value of production	111.09	140.89	94.50	81.97	75.06	70.84	78.05	72.18
Cash expenses								
Seed	5.72	7.63	6.77	6.30	5.73	5.84	5.84	5.81
Fertilizer, lime, and gypsum	16.77	17.11	16.68	14.49	13.52	13.80	18.15	14.16
Chemicals	7.69	7.86	7.97	8.11	8.14	7.77	7.93	7.88
Custom operations	3.46	3.41	3.39	3.49	3.68	3.64	3.77	3.72
Fuel, lube, and electricity	7.42	8.85	8.59	7.55	7.72	10.28	8.92	8.30
Repairs	13.04	15.21	13.87	14.08	14.25	14.91	15.02	14.58
Hired labor	3.80	3.98	4.40	4.50	4.65	4.88	5.23	5.18
Other variable cash expenses 2/	0.86	0.98	1.04	1.06	1.32	1.14	1.32	1.19
Total, variable cash expenses	58.76	65.03	62.71	59.58	59.01	62.26	66.18	60.82
General farm overhead	7.27	7.28	7.58	6.07	5.77	5.82	6.01	6.15
Taxes and insurance	11.87	12.86	12.13	11.14	10.39	10.70	10.70	10.89
Interest	13.01	13.70	12.20	11.33	11.40	11.40	12.15	10.84
Total, fixed cash expenses	32.15	33.84	31.91	28.54	27.56	27.92	28.86	27.88
Total, cash expenses	90.91	98.87	94.62	88.12	86.57	90.18	95.04	88.70
Gross value of production less cash expenses	20.18	42.02	-0.12	-6.15	-11.51	-19.34	-16.99	-16.52
Harvest-period price (dollars/bu.)	2.47	2.82	2.11	1.69	1.73	1.59	1.83	2.14
Yield (bu./planted acre)	44.22	49.29	43.52	47.28	42.35	43.28	41.52	32.64

1/ The Northern Plains Region which includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Cost of purchased irrigation water and baling.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

OATS: Production Costs and Returns, North Central Region, 1995-2002 1/

Item	1995	1996	1997	1998	1999	2000	2001	2002
<u>Dollars per Planted Acre</u>								
Gross value of production (excluding direct Government payments)								
Oats	71.40	119.06	104.46	64.03	68.26	69.90	85.42	103.02
Oats straw	37.98	44.21	49.88	44.21	45.34	46.48	48.18	48.77
Total, gross value of production	109.38	163.27	154.34	108.24	113.60	116.38	133.60	151.79
Cash expenses								
Seed	8.91	9.67	10.10	9.72	9.02	8.30	8.23	8.11
Fertilizer, lime, and gypsum	20.61	20.12	20.09	19.10	17.90	18.24	21.16	18.39
Chemicals	1.19	1.26	1.27	1.27	1.26	1.25	1.27	1.28
Custom operations 2/	5.69	5.75	5.71	5.73	5.75	5.76	5.82	5.78
Fuel, lube, and electricity	4.08	4.19	4.33	3.54	3.72	5.52	5.19	4.53
Repairs	8.03	6.50	7.63	7.10	6.70	6.57	6.69	6.77
Hired labor	1.58	1.73	1.81	1.91	2.00	2.18	2.17	2.31
Other variable cash expenses 3/	1.40	1.63	1.84	1.63	1.67	1.71	1.78	1.80
Total, variable cash expenses	51.49	50.85	52.78	50.00	48.02	49.53	52.31	48.97
General farm overhead	4.83	4.52	5.31	5.01	5.08	5.21	5.38	5.50
Taxes and insurance	19.00	20.15	20.15	19.58	20.15	21.16	21.54	21.32
Interest	6.22	6.14	6.17	6.50	6.13	6.48	6.60	6.02
Total, fixed cash expenses	30.05	30.81	31.63	31.09	31.36	32.85	33.52	32.84
Total, cash expenses	81.54	81.66	84.41	81.09	79.38	82.38	85.83	81.81
Gross value of production less cash expenses	27.84	81.61	69.93	27.15	34.22	34.00	47.77	69.98
Harvest-period price (dollars/bu.)	1.28	2.02	1.62	1.09	1.10	1.02	1.32	1.67
Yield (bu./planted acre)	55.78	58.94	64.48	58.74	62.05	68.53	64.71	61.69

1/ The North Central Region includes Minnesota, Iowa, Wisconsin, Illinois, Michigan, and Ohio.

2/ Cost of custom operations and technical services.

3/ Cost of baling.

Note: Survey base changed in 1994.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)**SUGARBEETS: Production Costs and Returns, Red River Valley, 1995-2002 1/**

Item	1995	1996	1997	1998	1999	2000	2001	2002
<u>Dollars per Planted Acre</u>								
Gross value of production								
Beets - gross value of production	685.85	851.03	697.50	733.42	739.11	723.06	752.49	803.93
Cash expenses								
Seed	41.15	42.91	44.81	46.39	45.55	44.89	45.01	48.02
Fertilizer	39.90	41.68	39.86	35.68	33.83	28.74	37.21	29.79
Chemicals	68.13	71.12	71.13	71.43	70.62	109.03	109.80	109.72
Custom operations	24.12	23.93	23.30	25.78	24.79	23.49	23.02	23.53
Fuel and lubrication	17.85	21.87	20.73	18.43	19.18	24.86	24.55	23.07
Repairs	28.93	29.37	31.53	33.53	34.38	32.52	34.59	37.00
Hired labor	69.33	77.02	83.06	86.06	84.88	51.76	55.21	55.95
Purchased irrigation water	0.04	0.04	0.05	0.05	0.04	0.06	0.06	0.06
Freight and dirt hauling charges	9.55	11.93	11.81	11.25	10.85	13.62	13.91	13.88
Miscellaneous 2/	14.47	16.54	16.94	15.71	15.77	13.30	13.75	13.65
Hauling allowance (-)	-9.14	-11.39	-11.36	-10.75	-10.36	-10.34	-10.44	-10.45
Total, variable cash expenses	304.33	325.02	331.86	333.56	329.53	331.93	346.67	344.22
General farm overhead	30.43	20.75	30.90	28.98	29.48	27.55	28.30	28.92
Taxes and insurance	39.36	33.23	39.24	40.39	40.76	14.57	12.59	12.84
Interest	45.83	32.88	41.99	48.63	49.59	8.38	4.96	2.44
Total, fixed cash expenses	115.62	86.86	112.13	118.00	119.83	50.50	45.85	44.20
Total, cash expenses	419.95	411.88	443.99	451.56	449.36	382.43	392.52	388.42
Gross value of production less cash expenses	265.90	439.15	253.51	281.86	289.75	340.63	366.97	415.51
Season-average price (dollars/ton)	38.38	46.76	38.43	35.21	37.16	35.10	42.27	42.25
Yield (net tons/planted acre)	17.87	18.20	18.15	20.83	19.89	20.60	17.80	19.00

1/ The Red River Valley includes Minnesota and eastern North Dakota.

2/ Includes costs deducted by the processor from the net payment and noncash benefits.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.

Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

**HOG PRODUCTION: Farrow-to-Finish, Farrow-to-Feeder,
Feeder Pig-to-Finish, Costs and Returns, Heartland Region, 2002 1/**

Item	All Hog Producers	Farrow to Finish	Farrow to Feeder 2/	Feeder Pig to Finish
<u>Dollars per Cwt Gain 3/</u>				
Gross value of production				
Market hogs	32.90	32.11	1.61	39.69
Feeder pigs	9.10	0.64	94.07	0.15
Cull stock	0.84	1.46	2.13	0.01
Breeding stock	0.36	0.13	0.18	0.01
Inventory change	-0.07	0.03	-4.02	0.70
Other income 4/	1.48	1.40	1.23	1.62
Total gross value of production	44.61	35.77	95.20	42.18
Operating costs				
Feed	8.08	10.29	2.16	6.35
Grain	6.40	8.89	0.89	4.03
Protein sources	7.96	4.73	25.69	9.29
Complete mixes	0.22	0.37	0.23	0.08
Other feed items 5/	22.66	24.28	28.97	19.75
Total feed costs				
Other				
Feeder pigs	11.37	0.06	0.56	24.93
Veterinary and medicine	1.19	1.61	2.78	0.54
Bedding and litter	0.04	0.04	0.06	0.02
Marketing	0.64	0.34	3.77	0.54
Custom services	0.32	0.28	0.29	0.40
Fuel, lube, and electricity	1.27	1.36	3.31	0.79
Repairs	0.91	1.27	1.15	0.43
Other operating costs 6/	0.03	0.03	0.04	0.03
Interest on operating capital	0.32	0.25	0.34	0.40
Total operating costs	38.75	29.52	41.27	47.83
Allocated overhead				
Hired labor	2.61	3.00	13.05	0.47
Opportunity cost of unpaid labor	5.70	7.40	7.67	3.32
Capital recovery of machinery and equipment	10.86	11.72	27.53	6.79
Opportunity cost of land (rental rate)	0.05	0.06	0.07	0.02
Taxes and insurance	0.49	0.53	0.94	0.37
General farm overhead	1.03	1.13	1.60	0.79
Total, allocated overhead	20.74	23.84	50.86	11.76
Total costs listed	59.49	53.36	92.13	59.59
Value of production less total costs listed	-14.88	-17.59	3.07	-17.41
Value of production less operating costs	5.86	6.25	53.93	-5.65
Supporting information				
Production arrangement (percent of production)				
Independent	71	99	22	48
Under contract	29	1	78	52
Size of operation (head sold/removed)				
Market hogs	1,852	1,644	74	2,686
Feeder pigs	1,045	53	9,744	14

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website. Developed from survey base year, 1998.

2/ Farrow to Feeder data are for the United States (Heartland Region data are not available).

3/ Cwt gain = (cwt sold - cwt purchased) ÷ cwt inventory change.

4/ Value of manure production.

5/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

6/ Costs for odor control and fees, permits, licenses, and other regulatory costs.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)

COW-CALF: Production Costs and Returns, Heartland Region, 2001-2002 1/

Item	2001	2002
	<u>Dollars per Bred Cow</u>	
Gross value of production		
Steer calves	188.26	171.57
Heifer calves	127.54	115.34
Yearling steers	38.84	34.95
Yearling heifers	11.74	10.80
Other cattle	72.71	64.54
Total gross value of production	443.39	401.47
Operating costs		
Purchased cattle for backgrounding	26.39	23.26
Feed		
Concentrates and other feed	26.23	26.81
Supplemental feed	35.19	40.24
Harvested forages	206.00	202.16
Cropland pasture	13.42	13.20
Private pasture	73.63	73.61
Public land	0.37	0.36
Total feed costs	354.84	356.38
Other		
Veterinary and medicine	39.24	38.49
Bedding and litter	1.32	1.34
Marketing	4.30	4.27
Custom operations	40.77	40.18
Fuel, lube, and electricity	16.18	16.16
Repairs	29.63	29.24
Interest on operating inputs	8.89	4.40
Total operating costs	521.56	513.72
Allocated overhead		
Hired labor	0.58	0.60
Opportunity cost of unpaid labor	205.55	219.81
Capital recovery cost of machinery and equipment	272.90	280.63
Opportunity cost of land	5.46	5.55
Taxes and insurance	44.13	44.23
General farm overhead	82.71	84.10
Total allocated overhead	611.33	634.92
Total cost listed	1,132.89	1,148.64
Value of production less total costs listed	-689.50	-747.17
Value of production less operating costs	-78.17	-112.25

1/ The Heartland Region includes portions of South Dakota, Nebraska, Iowa, Missouri, Illinois, Indiana, Ohio, and Minnesota's Ag. Statistics Districts 4, 7, 8, and 9. Minnesota is also part of the Northern Crescent and Northern Great Plains Regions. Information is available about the Northern Crescent and Northern Great Plains Regions on the ERS website listed below.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)



Milk: Production Costs And Returns, per cwt sold, 2001-2002

Item	Heartland 1/		Northern Crescent 2/	
	2001	2002	2001	2002
	Dollars per Cwt.			
Gross value of production				
Milk	15.31	12.35	15.78	12.93
Cattle	1.54	1.42	1.24	1.14
Other income 3/	1.05	0.82	0.81	0.65
Total gross value of production	17.90	14.59	17.83	14.72
Operating costs:				
Feed				
Feed grains	1.93	2.25	1.24	1.44
Hay and straw	2.36	2.74	1.15	1.25
Complete feed mixes	0.94	0.90	1.14	1.22
Liquid whey and milk replacer	0.07	0.10	0.07	0.09
Silage	0.83	0.78	1.20	0.99
Grazed pasture and cropland	0.13	0.13	0.07	0.07
Other feed item 4/	1.57	1.65	1.07	1.24
Total feed costs	7.83	8.55	5.94	6.30
Other				
Veterinary and medicine	0.77	0.76	0.79	0.78
Bedding and litter	0.23	0.22	0.24	0.23
Marketing	0.22	0.22	0.31	0.31
Custom service	0.54	0.53	0.48	0.48
Fuel, lube, and electricity	0.52	0.47	0.53	0.50
Repairs	0.59	0.61	0.61	0.62
Other operating costs 5/	0.00	0.00	0.00	0.00
Interest on operating capital	0.18	0.10	0.15	0.08
Total operating costs	10.88	11.46	9.05	9.30
Allocated overhead				
Hired labor	0.79	0.81	1.21	1.28
Opportunity cost of unpaid labor	5.68	5.79	5.15	5.20
Capital recovery of machinery and equipment 6/	4.67	4.73	4.22	4.22
Opportunity cost of land (rental rate)	0.09	0.09	0.08	0.08
Taxes and insurance	0.20	0.19	0.22	0.22
General farm overhead	0.58	0.60	0.63	0.64
Total allocated overhead	12.01	12.21	11.51	11.64
Total cost listed	22.89	23.67	20.56	20.94
Value of production less total costs listed	-4.99	-9.08	-2.73	-6.22
Value of production less operating costs	7.02	3.13	8.78	5.42
Supporting Information				
Milk Cows (head per farm)	59	60	68	70
Output per cow (pounds)	18,544	18,479	19,806	19,890
Milking frequency greater than twice per day (percent of farms)	1.76	1.87	2.98	3.15
Homegrown feed cost (percent of total feed cost)	60	60	49	49
Milk cows injected with BST (head per farm)	10	10	14	14

1/ The Heartland Region includes MN Agricultural Statistics Districts (ASD) 4, 7, 8, and 9, SD ASD 6 and 9, NE ASD 3 and 6, IA, MO ASD 1, 2, 3, 4, 5, and 9, IL, IN, KY ASD 1 and 2, and Ohio ASD 1, 4, 5, 7 and 8. The first data available for the Heartland Region is 2000.

2/ The Northern Crescent Region includes New England, New York ASD 1, 2, 3, 5, 6, 8 and 9, Ohio ASD 2 and 3, MI, WI and MN ASD 2, 3, 5 and 6. The first data available for the Northern Crescent Region is 2000.

3/ Income from renting or leasing dairy stock to other operations; renting space to other dairy operations; co-op patronage dividends associated with the dairy; assessment rebates, refunds, and other dairy related resources; and manure production.

4/ Cotton seed meal, protein supplements, protein by products, vitamin or mineral supplements, nonprotein byproducts, alfalfa cubes or pellets, green chop, corn stalks, and antibiotics and other medicated additives.

5/ Manure disposal fees, permits, licenses, and odor control costs.

6/ Machine and equipment, and housing, manure handling, and feed storage structures, and dairy breeding herd.

Source: Economic Research Service, United States Department of Agriculture, Washington, D.C.
Internet Web Site (www.ers.usda.gov/data/costsandreturns/testpick.htm)